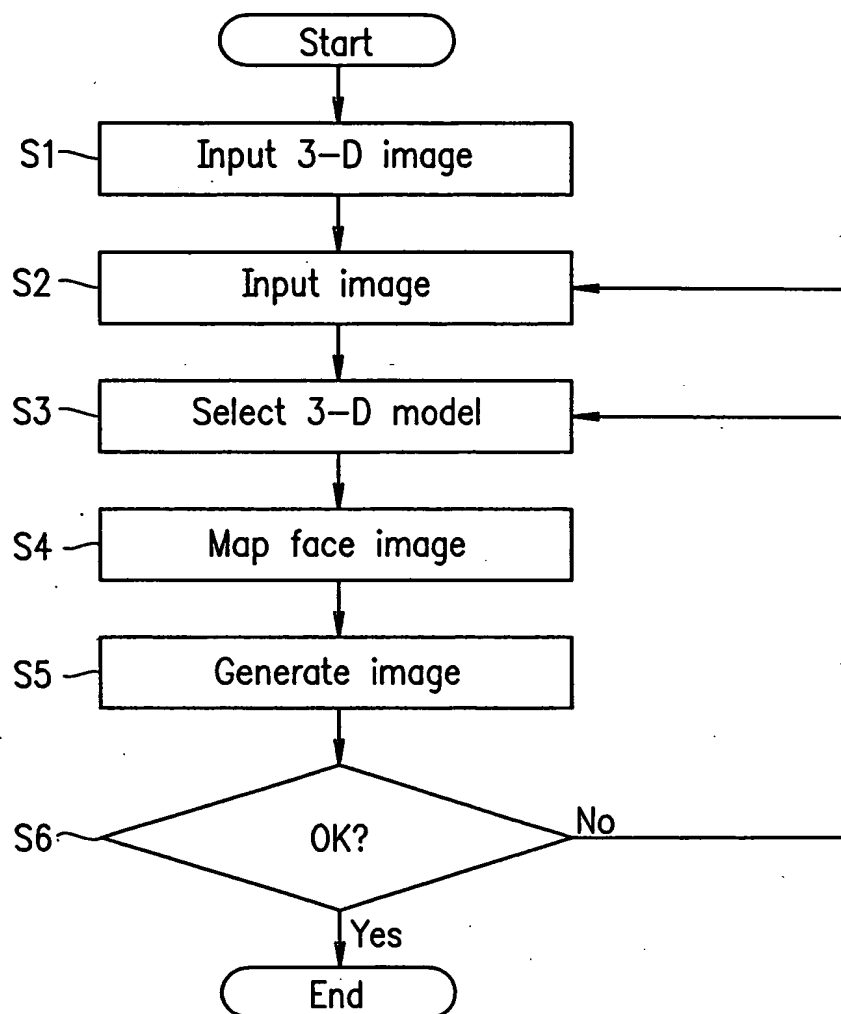


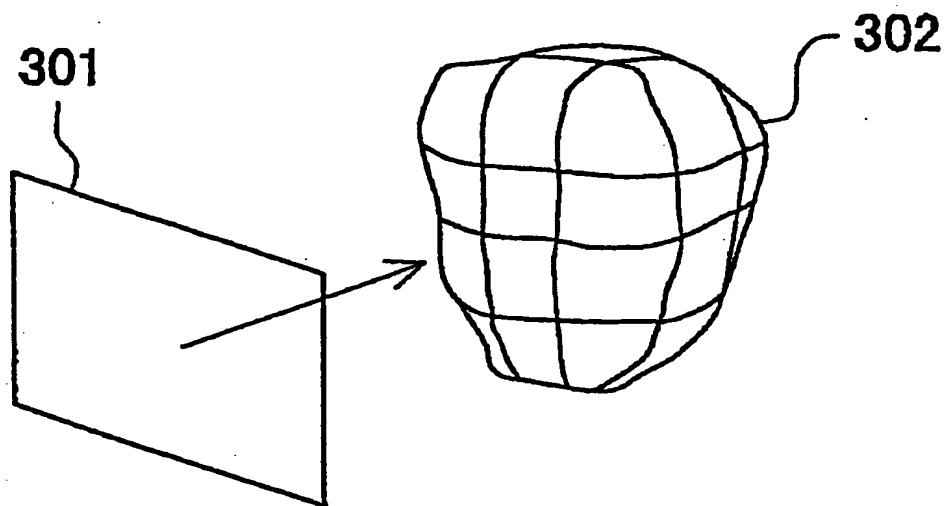
```
graph TD; 1[1 Face image input means] --> 4[4 Face image mapping means]; 2[2 3-D model input means] --> 3[3 3-D model selection means]; 3 --> 4; 4 --> 5[5 Image generation means];
```

The flowchart illustrates the process of generating a face image. It begins with two parallel input stages: 'Face image input means' (labeled 1) and '3-D model input means' (labeled 2). The output of the 3-D model input stage feeds into '3-D model selection means' (labeled 3). Both the 'Face image input means' and the '3-D model selection means' feed into 'Face image mapping means' (labeled 4). Finally, the output of the mapping stage feeds into 'Image generation means' (labeled 5).

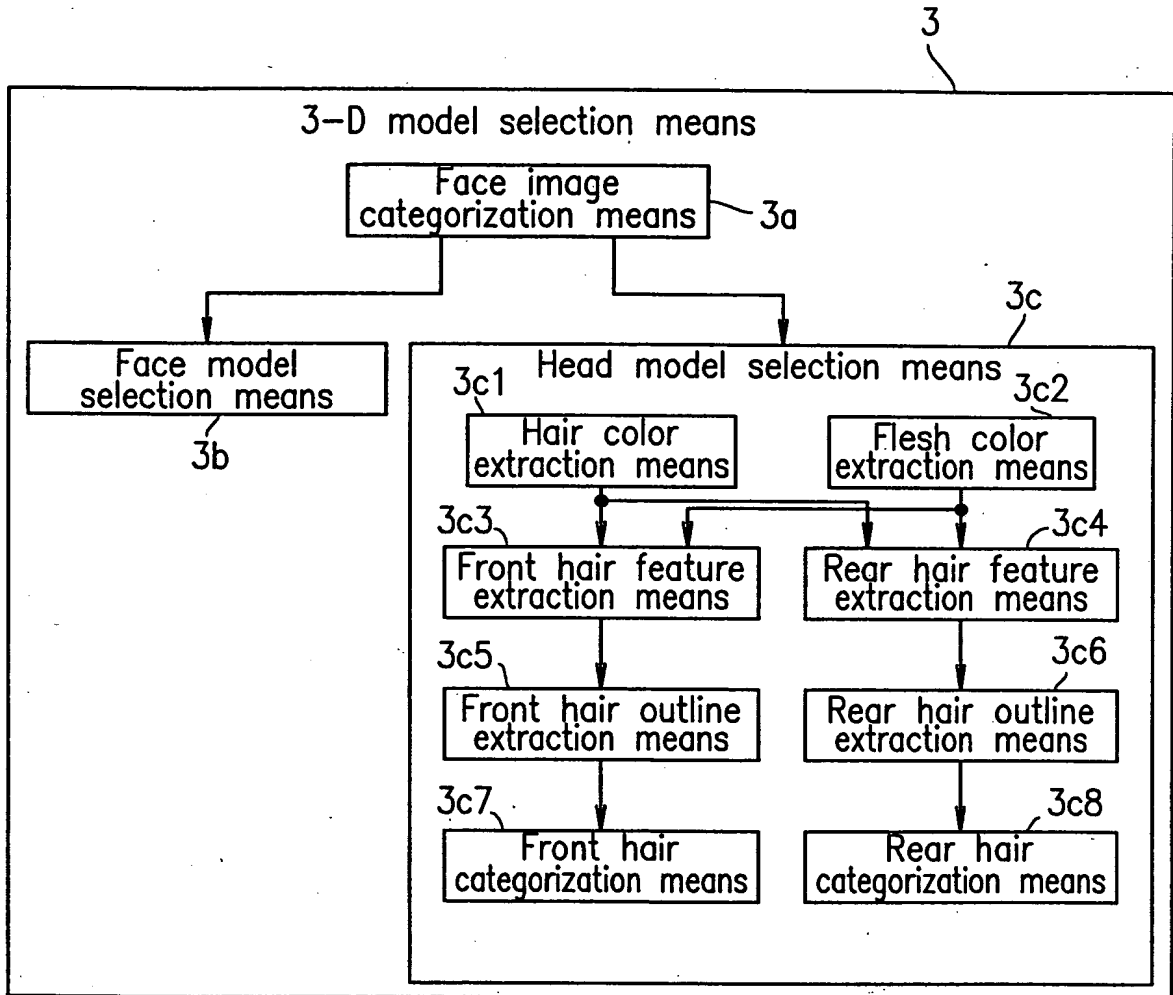
FIG. 2



**FIG. 3**



**FIG. 4**



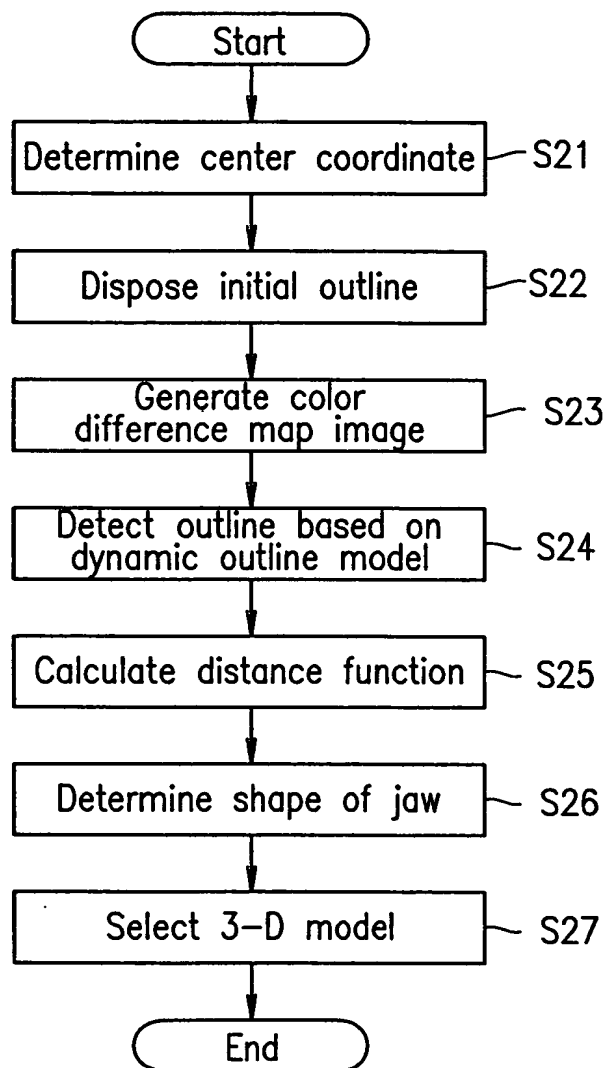
*FIG. 5*

FIG. 6

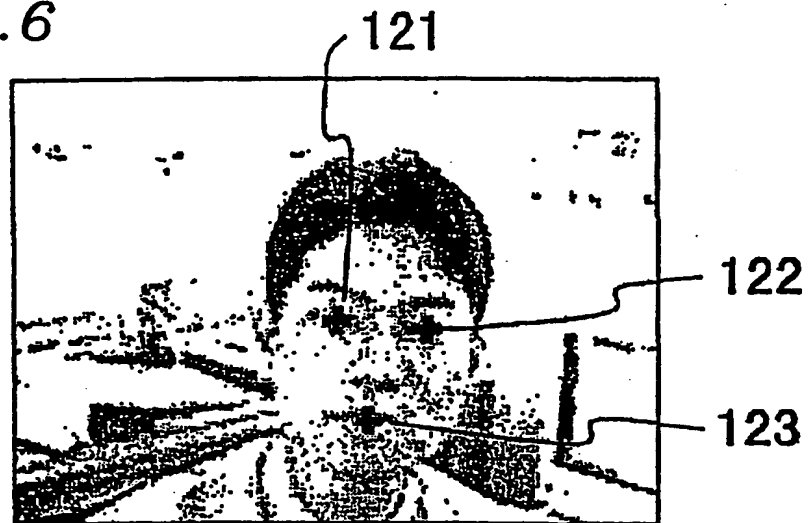
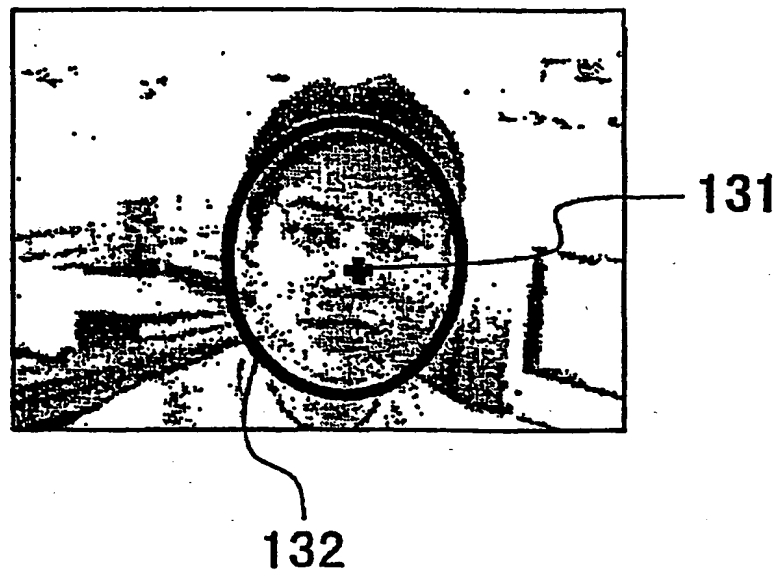
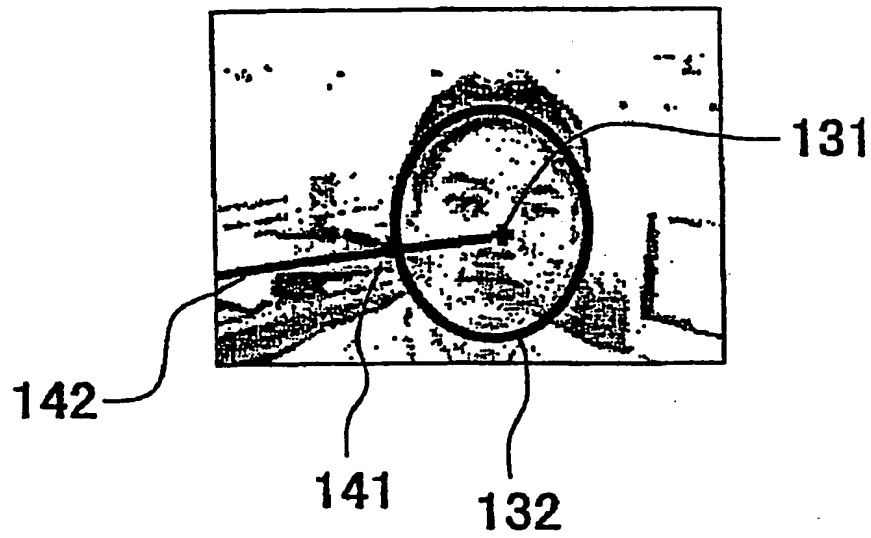
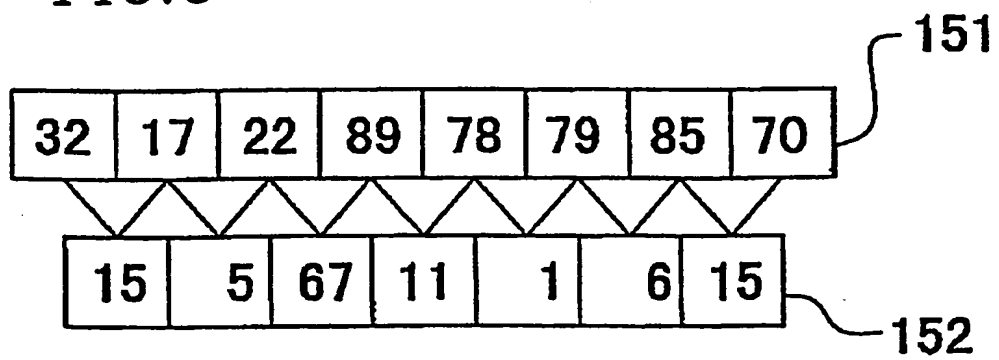
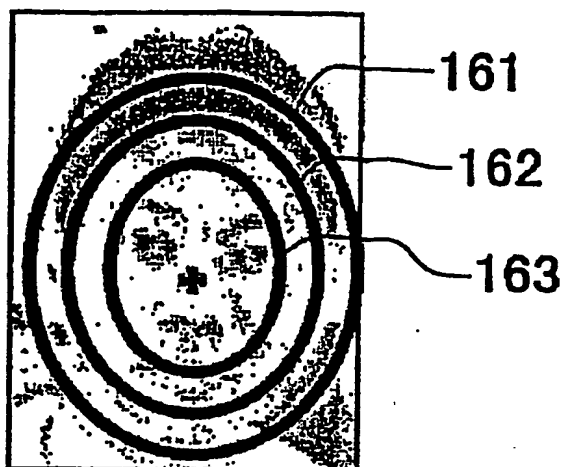
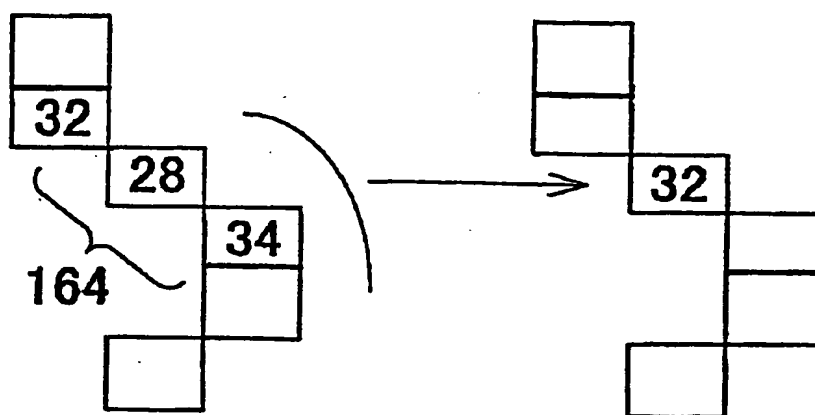


FIG. 7

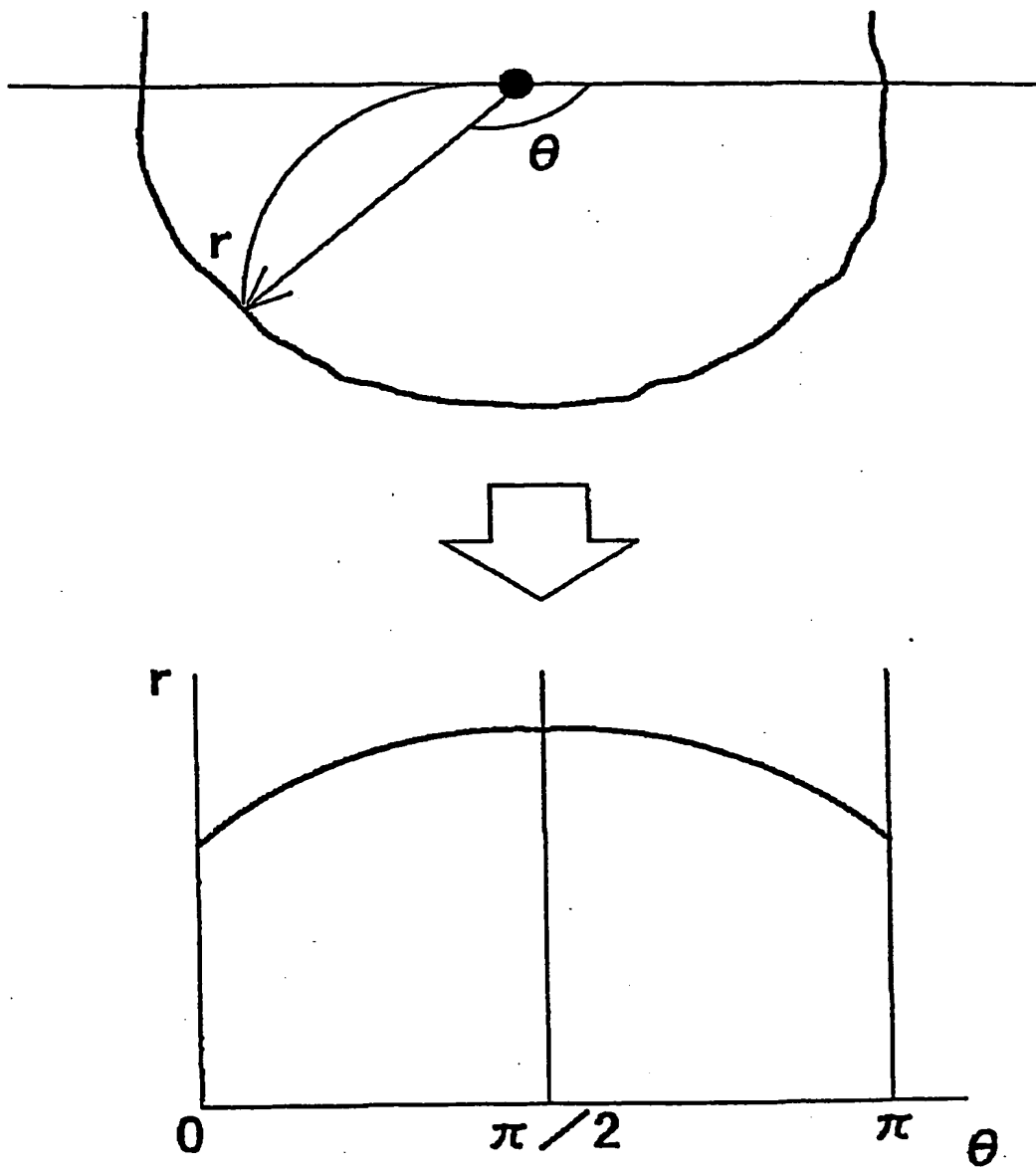


00200T 40609950

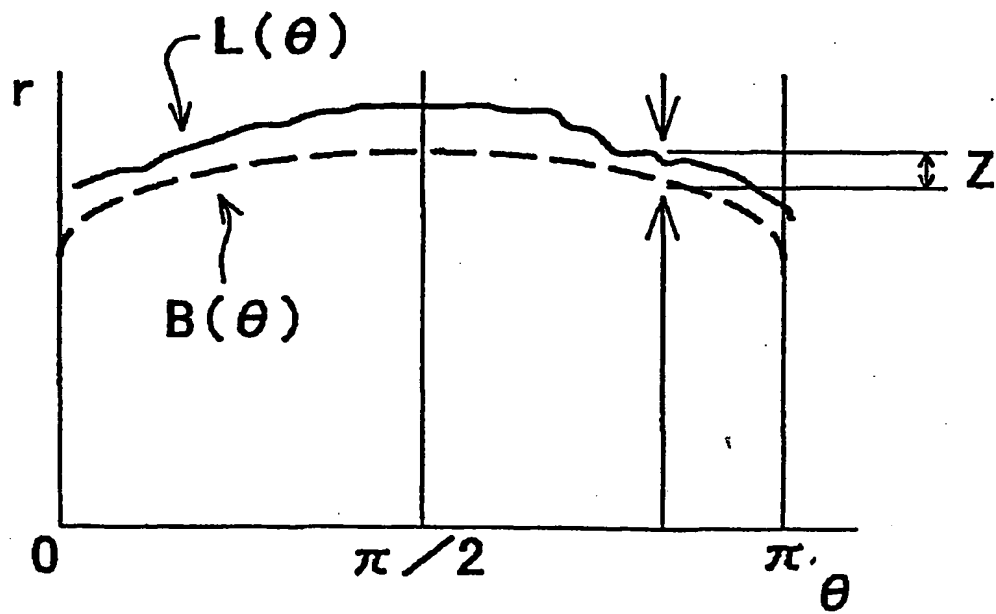
*FIG. 8**FIG. 9*

*FIG. 10A**FIG. 10B*



*FIG. 11*

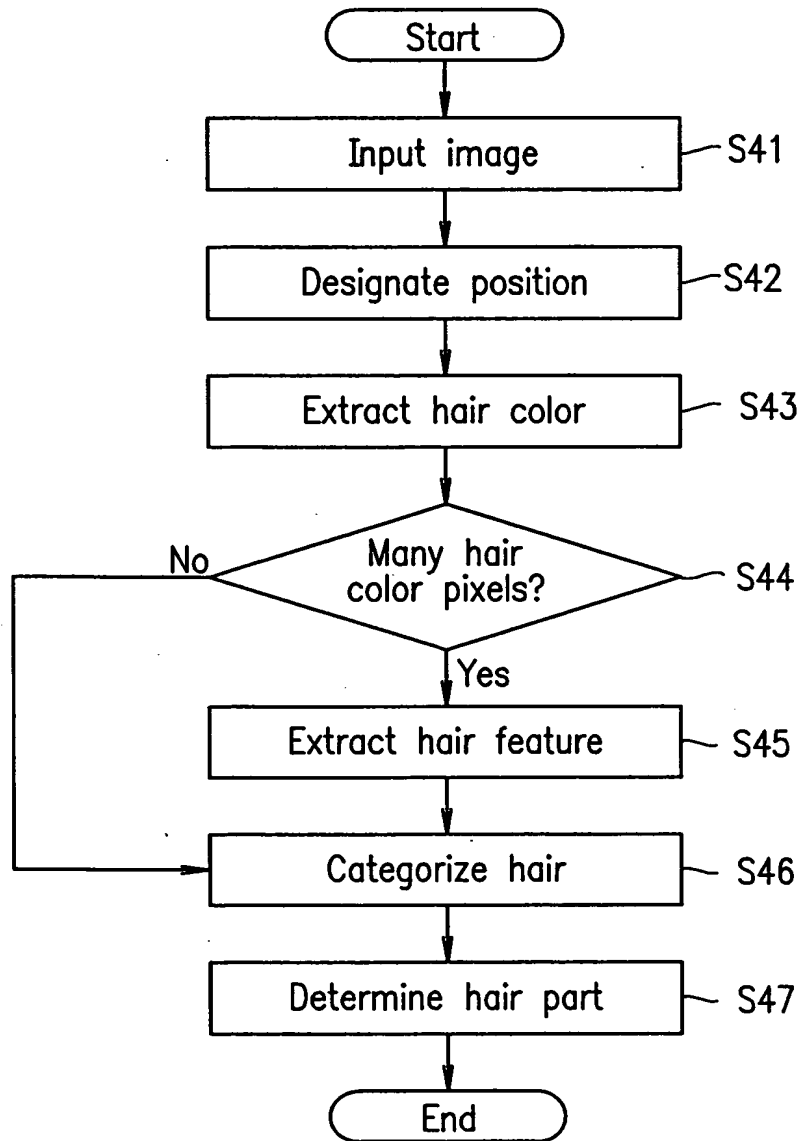
**FIG. 12**



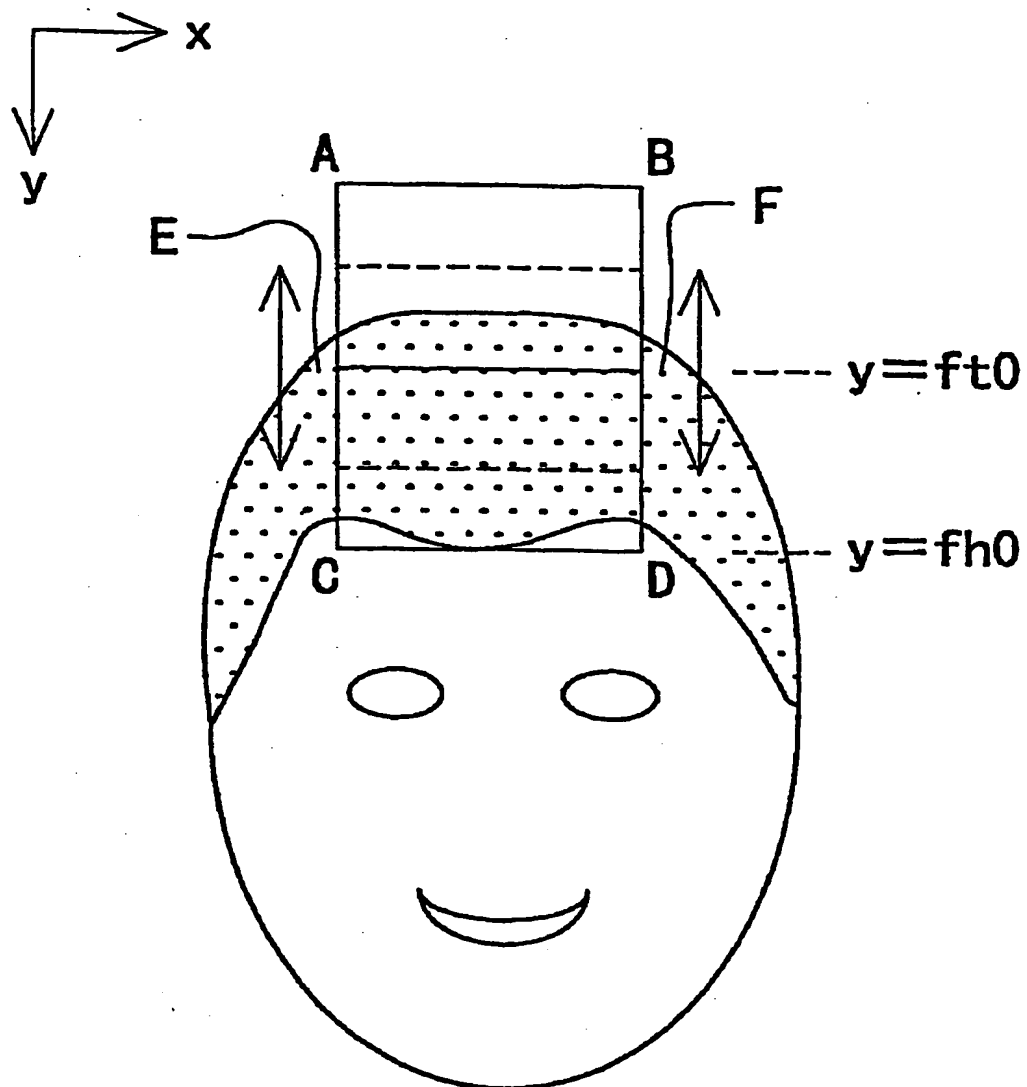
0

### Circle-shaped type

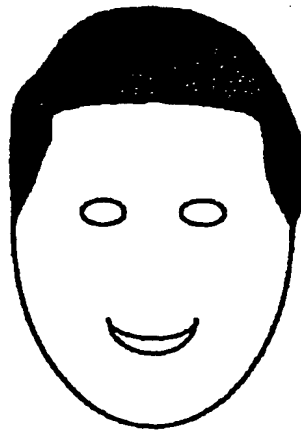
FIG. 14



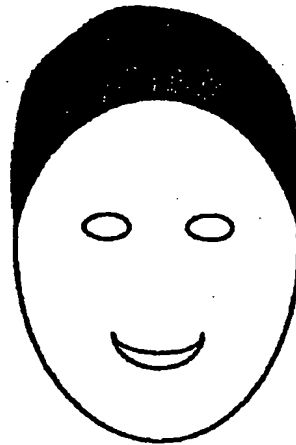
**FIG. 15**



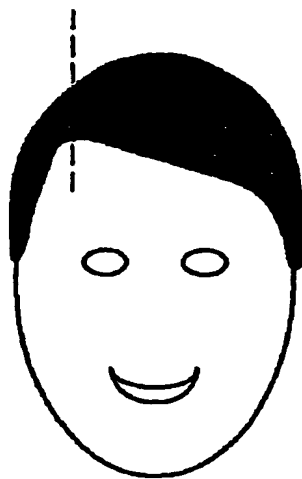
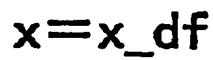
**FIG. 16A**



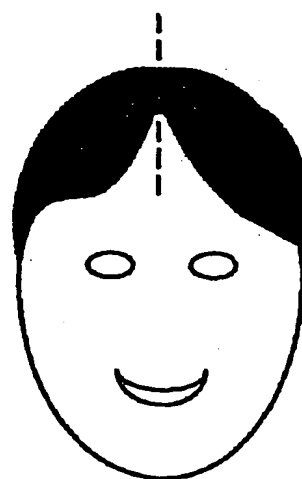
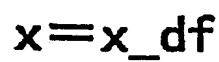
*FIG. 16B*



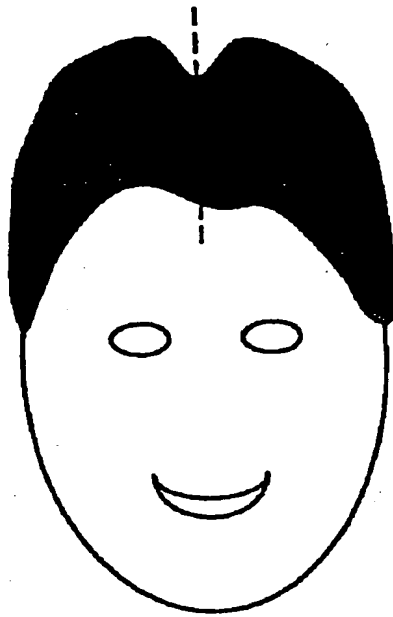
**FIG. 16C**



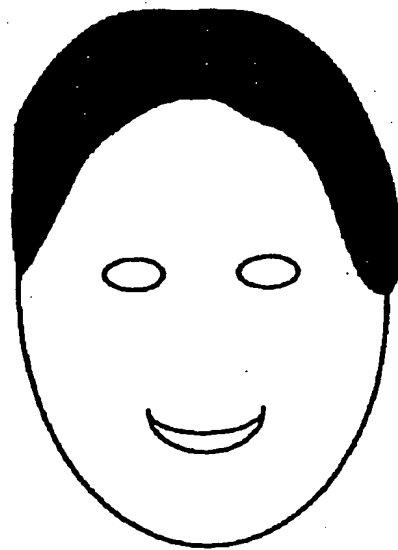
**FIG. 16D**



**x=x\_db**



**FIG. 17A**



**FIG. 17B**

1. *Chlorophyll a* (Chl *a*)  
 2. *Chlorophyll b* (Chl *b*)  
 3. *Chlorophyll c* (Chl *c*)  
 4. *Chlorophyll d* (Chl *d*)  
 5. *Chlorophyll e* (Chl *e*)  
 6. *Chlorophyll f* (Chl *f*)  
 7. *Chlorophyll g* (Chl *g*)  
 8. *Chlorophyll h* (Chl *h*)  
 9. *Chlorophyll i* (Chl *i*)  
 10. *Chlorophyll j* (Chl *j*)  
 11. *Chlorophyll k* (Chl *k*)  
 12. *Chlorophyll l* (Chl *l*)  
 13. *Chlorophyll m* (Chl *m*)  
 14. *Chlorophyll n* (Chl *n*)  
 15. *Chlorophyll o* (Chl *o*)  
 16. *Chlorophyll p* (Chl *p*)  
 17. *Chlorophyll q* (Chl *q*)  
 18. *Chlorophyll r* (Chl *r*)  
 19. *Chlorophyll s* (Chl *s*)  
 20. *Chlorophyll t* (Chl *t*)  
 21. *Chlorophyll u* (Chl *u*)  
 22. *Chlorophyll v* (Chl *v*)  
 23. *Chlorophyll w* (Chl *w*)  
 24. *Chlorophyll x* (Chl *x*)  
 25. *Chlorophyll y* (Chl *y*)  
 26. *Chlorophyll z* (Chl *z*)  
 27. *Chlorophyll aa* (Chl *aa*)  
 28. *Chlorophyll ab* (Chl *ab*)  
 29. *Chlorophyll ac* (Chl *ac*)  
 30. *Chlorophyll ad* (Chl *ad*)  
 31. *Chlorophyll ae* (Chl *ae*)  
 32. *Chlorophyll af* (Chl *af*)  
 33. *Chlorophyll ag* (Chl *ag*)  
 34. *Chlorophyll ah* (Chl *ah*)  
 35. *Chlorophyll ai* (Chl *ai*)  
 36. *Chlorophyll aj* (Chl *aj*)  
 37. *Chlorophyll ak* (Chl *ak*)  
 38. *Chlorophyll al* (Chl *al*)  
 39. *Chlorophyll am* (Chl *am*)  
 40. *Chlorophyll an* (Chl *an*)  
 41. *Chlorophyll ao* (Chl *ao*)  
 42. *Chlorophyll ap* (Chl *ap*)  
 43. *Chlorophyll aq* (Chl *aq*)  
 44. *Chlorophyll ar* (Chl *ar*)  
 45. *Chlorophyll as* (Chl *as*)  
 46. *Chlorophyll at* (Chl *at*)  
 47. *Chlorophyll au* (Chl *au*)  
 48. *Chlorophyll av* (Chl *av*)  
 49. *Chlorophyll aw* (Chl *aw*)  
 50. *Chlorophyll ax* (Chl *ax*)  
 51. *Chlorophyll ay* (Chl *ay*)  
 52. *Chlorophyll az* (Chl *az*)  
 53. *Chlorophyll aza* (Chl *aza*)  
 54. *Chlorophyll abz* (Chl *abz*)  
 55. *Chlorophyll aca* (Chl *aca*)  
 56. *Chlorophyll acb* (Chl *acb*)  
 57. *Chlorophyll acc* (Chl *acc*)  
 58. *Chlorophyll acd* (Chl *acd*)  
 59. *Chlorophyll ace* (Chl *ace*)  
 60. *Chlorophyll acf* (Chl *acf*)  
 61. *Chlorophyll acg* (Chl *acg*)  
 62. *Chlorophyll ach* (Chl *ach*)  
 63. *Chlorophyll aci* (Chl *aci*)  
 64. *Chlorophyll acj* (Chl *acj*)  
 65. *Chlorophyll ack* (Chl *ack*)  
 66. *Chlorophyll acl* (Chl *acl*)  
 67. *Chlorophyll acm* (Chl *acm*)  
 68. *Chlorophyll acn* (Chl *acn*)  
 69. *Chlorophyll aco* (Chl *aco*)  
 70. *Chlorophyll acp* (Chl *acp*)  
 71. *Chlorophyll acq* (Chl *acq*)  
 72. *Chlorophyll acr* (Chl *acr*)  
 73. *Chlorophyll acs* (Chl *acs*)  
 74. *Chlorophyll act* (Chl *act*)  
 75. *Chlorophyll acu* (Chl *acu*)  
 76. *Chlorophyll acv* (Chl *acv*)  
 77. *Chlorophyll acw* (Chl *acw*)  
 78. *Chlorophyll acx* (Chl *acx*)  
 79. *Chlorophyll acy* (Chl *acy*)  
 80. *Chlorophyll acz* (Chl *acz*)  
 81. *Chlorophyll azaa* (Chl *aza*  
 82. *Chlorophyll abz* (Chl *abz*)  
 83. *Chlorophyll aca* (Chl *aca*)  
 84. *Chlorophyll acb* (Chl *acb*)  
 85. *Chlorophyll acc* (Chl *acc*)  
 86. *Chlorophyll acd* (Chl *acd*)  
 87. *Chlorophyll ace* (Chl *ace*)  
 88. *Chlorophyll acf* (Chl *acf*)  
 89. *Chlorophyll acg* (Chl *acg*)  
 90. *Chlorophyll ach* (Chl *ach*)  
 91. *Chlorophyll aci* (Chl *aci*)  
 92. *Chlorophyll acj* (Chl *acj*)  
 93. *Chlorophyll ack* (Chl *ack*)  
 94. *Chlorophyll acl* (Chl *acl*)  
 95. *Chlorophyll acm* (Chl *acm*)  
 96. *Chlorophyll acn* (Chl *acn*)  
 97. *Chlorophyll aco* (Chl *aco*)  
 98. *Chlorophyll acp* (Chl *acp*)  
 99. *Chlorophyll acq* (Chl *acq*)  
 100. *Chlorophyll acr* (Chl *acr*)  
 101. *Chlorophyll acs* (Chl *acs*)  
 102. *Chlorophyll act* (Chl *act*)  
 103. *Chlorophyll acu* (Chl *acu*)  
 104. *Chlorophyll acv* (Chl *acv*)  
 105. *Chlorophyll acw* (Chl *acw*)  
 106. *Chlorophyll acx* (Chl *acx*)  
 107. *Chlorophyll acy* (Chl *acy*)  
 108. *Chlorophyll acz* (Chl *acz*)  
 109. *Chlorophyll azaa* (Chl *aza*  
 110. *Chlorophyll abz* (Chl *abz*)  
 111. *Chlorophyll aca* (Chl *aca*)  
 112. *Chlorophyll acb* (Chl *acb*)  
 113. *Chlorophyll acc* (Chl *acc*)  
 114. *Chlorophyll acd* (Chl *acd*)  
 115. *Chlorophyll ace* (Chl *ace*)  
 116. *Chlorophyll acf* (Chl *acf*)  
 117. *Chlorophyll acg* (Chl *acg*)  
 118. *Chlorophyll ach* (Chl *ach*)  
 119. *Chlorophyll aci* (Chl *aci*)  
 120. *Chlorophyll acj* (Chl *acj*)  
 121. *Chlorophyll ack* (Chl *ack*)  
 122. *Chlorophyll acl* (Chl *acl*)  
 123. *Chlorophyll acm* (Chl *acm*)  
 124. *Chlorophyll acn* (Chl *acn*)  
 125. *Chlorophyll aco* (Chl *aco*)  
 126. *Chlorophyll acp* (Chl *acp*)  
 127. *Chlorophyll acq* (Chl *acq*)  
 128. *Chlorophyll acr* (Chl *acr*)  
 129. *Chlorophyll acs* (Chl *acs*)  
 130. *Chlorophyll act* (Chl *act*)  
 131. *Chlorophyll acu* (Chl *acu*)  
 132. *Chlorophyll acv* (Chl *acv*)  
 133. *Chlorophyll acw* (Chl *acw*)  
 134. *Chlorophyll*